

# Pharmaburst® 500

## Orally Disintegrating Tablet Platform

Pharmaburst® was the first orally disintegrating tablet (ODT) platform on the market. Pharmaburst® 500 is the current standard for its performance and versatility. It is an ideal choice among formulators because it addresses development challenges and creates premium products. It is a coprocessed excipient platform meeting globally accepted compendia and is used in over 60 commercialized products worldwide.

Pharmaburst 500 can simplify your formulation and manufacturing process while streamlining your path to market:

- Improve patient compliance
- Provide rapid disintegration
- Create robust tablets
- Improve drug loading capability



### Patient Compliance

Pharmaburst 500 has excellent mouthfeel qualities that help improve patient compliance- making your drug product more successful. It has an optimum blend of polyols that deliver a smooth, creamy texture with a pleasant cooling sensation. Pharmaburst also has a neutral background flavor, accommodating any desired flavor profile for consumer satisfaction.

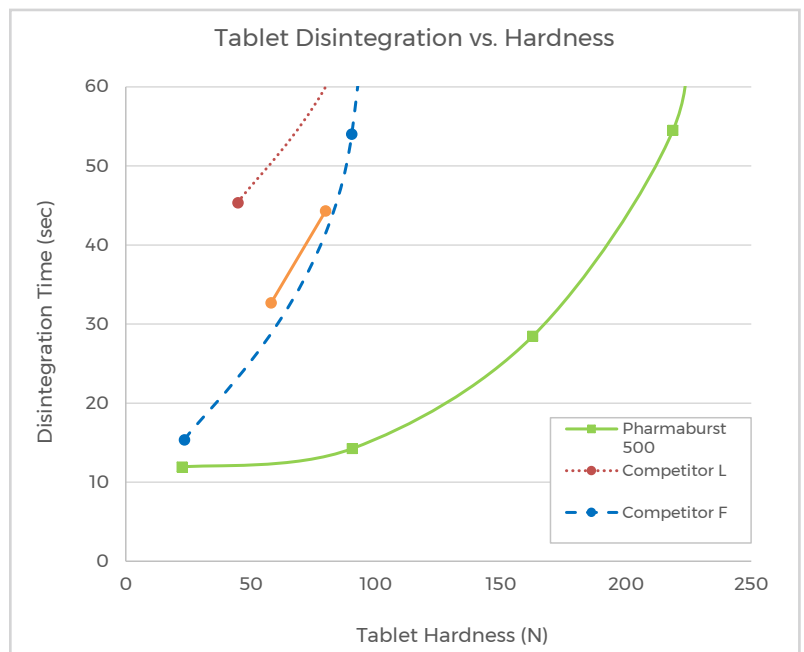
### Rapid Disintegration

Fast disintegration time of 30 seconds or less is crucial for patient compliance with an ODT. An ODT that fails to perform as expected might require water for administration or chewing to facilitate swallowing- resulting in an unsatisfactory patient experience and increased risk of noncompliance.

### Robust Tablets

Due to the compactable nature of Pharmaburst 500, robust tablets can be made by direct compression employing relatively low forces. Manufacturing durable tablets at lower compression forces is easier on equipment. It also reduces the stress applied to multiparticulates such as taste masked actives, a common component of ODT formulations, thereby ensuring that the integrity of the coat is maintained.

Figure 1: Tablet Disintegration Time Versus Hardness of Several Commercially Available Orally Disintegrating Platform Products

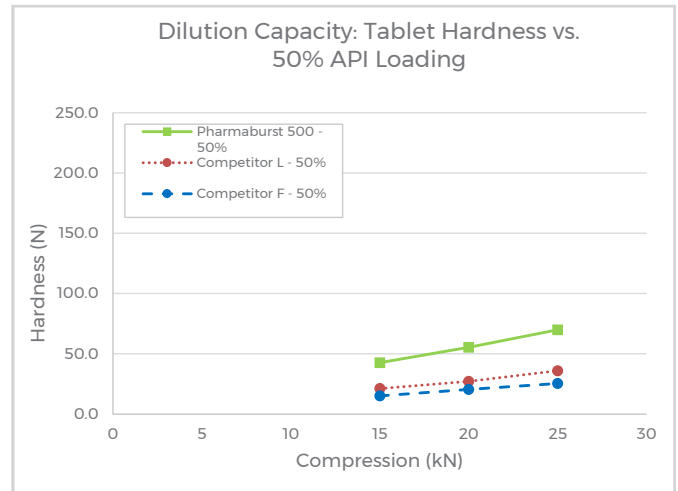
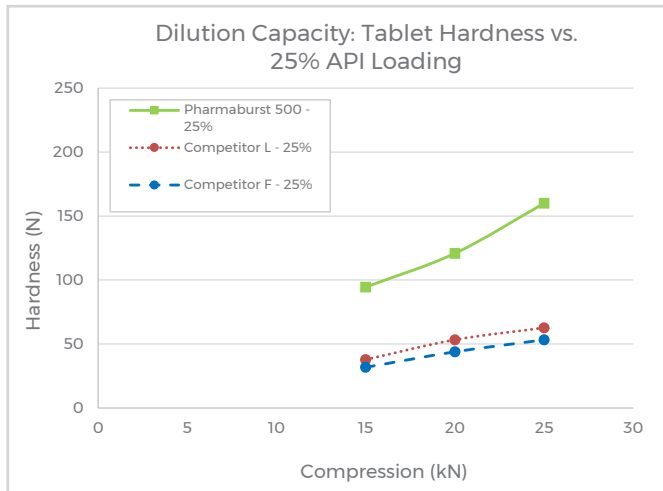


Globe Pharma 8 Station Instrumented Press, 25 RPM, 0.4375" FFBE Punches  
 Tablet Weight: 400mg, mg stearate: 2.5%, Pre-compression: 0.0kN

## Better Drug Loading Capability

The compaction behavior of Pharmaburst 500 contributes to its ability to carry high drug loads. The co-processed granules fracture around the drug particles during compression and fill void spaces. This characteristic allows Pharmaburst 500 to create durable and fast disintegration tablets without increasing tablet size.

Figures 2 and 3: Dilution Capacity of Pharmaburst 500 to Several Commercially available Orally Disintegrating Platform Products



## Ease of Manufacturing

Pharmaburst 500 is designed to be a completely optimized platform that requires little formulation development. Orally disintegrating tablets formulated with Pharmaburst are also easy to manufacture using standard direct compression equipment and processes. The active(s) are simply blended with Pharmaburst, flavors, sweeteners, and colors. The lubricant is added in the final step and blended for the prescribed amount of time.

## Value of Pharmaburst 500

Pharmaburst 500 produces fast disintegrating tablets that are hard enough to withstand the mechanics of production, storage, transportation, and being pushed out of a blister pack, yet will disintegrate rapidly so the patient can swallow their medication comfortably.

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